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D 8

SET Table of contents	- SET PARAMETER DCLS COMMAND EXECUTION 16-SEP-1984 00:15:05 VAX/VMS Macro V04-00
(3) 130 (4) 196 (5) 281 (6) 505 (7) 561 (8) 623 (9) 667 (10) 704 (11) 737 (12) 792	SET USER IDENTIFICATION CODE CONVERT STRING TO LONGWORD UIC SET DEFAULT DEVICE AND/OR DIRECTORY SET PROTECTION SET VERIFY MODE SET IMAGE VERIFY MODE MODIFY INPUT STREAM CHARACTERISTICS SET ON MODE SET CONTROL ENABLE/DISABLE SET PROMPT

Page ,

.TITLE SET - SET PARAMETER DCLS COMMAND EXECUTION
.IDENT 'V04-000'
.IDENT

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```
SET PARAMETER DCLS COMMAND EXECUTION
        SET DIRECTOR
SET PROTECT
SET USER ID
SET VERIFY
SET ON
SET CONTROL
SET PROMPT
             DIRECTORY
PROTECTION
USER IDENTIFICATION CODE
VERIFY MODE
D. N. CUTLER 17-APR-77
MODIFIED BY:
        V03-015 HWS0095
                                         Harold Schultz 25-Jul-1984
                   Add support for execute-only command procedures.
                  HWS0011 Harold Schultz 13-feb-1984
Use PRC_V_CARRCNTL to indicate presence/absence of CR/LF in prompt string.
Fix broken branch.
        V03-014 HWS0011
        V03-013 PCG0012 Peter George 12-Oct-1983 Fix bug in SET NOON, ON severity, SET ON sequence.
                   PCG0011 Peter George 18-Aug-1983 Change the way that default protection is changed.
        V03-012 PCG0011
        V03-011 KBT0577 Keith B. Thompson fix a bug in kbt0572
                                                                          8-Aug-1983
        V03-010 KBT0572 Keith B. Thompson Use $TRNLNM in SET DEFAULT
                                                                           1-Aug-1983
        V03-009 PCG0010
                                                               07-Jul-1983
                                         Peter George
                   Update SET UIC.
        V03-008 PCG0009
                                         Peter George
                                                                31-May-1983
                   Reference SRMEDEF.
        V03-007 PCG0008 Peter Go
Add image verification.
                                         Peter George
                                                                27-May-1983
        V03-006 PCG0007
                                         Peter George
                                                                30-Apr-1983
                   Change reference to CRLF.
                   PCG0006 Peter George 17-I
Remove reference to $CLIDEFQUALSET.
Convert to new table structure.
        V03-005 PCG0006
                                                                17-Feb-1983
        V03-004 PCG0005
                                         Peter George
                                                               19-Nov-1982
                   Let SET PROMPT with no argument restore the default
                   prompt.
```

V03-003 PCG0004 Add SET PROMPT.

Peter George

28-Oct-1982

- SET PARAMETER DCLS COMMAND EXECUTION

```
.SBTTL SET USER IDENTIFICATION CODE
                                                   DCL$SETUIC - SET USER IDENTIFICATION CODE
                                                   THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET USER IDENTIFICATION CODE DCLS COMMAND.
                                                   INPUTS:
                                                            R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
R9 = ADDRESS OF SCRATCH STACK.
R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                                   OUTPUTS:
                                                             THE CURRENT USER IDENTIFICATION CODE IS ESTABLISHED,
                                               DCL$SETUIC::
                                                                                                                    SET USER IDENTIFICATION CODE SKIP OPTION DESCRIPTOR
                                                                          #PTR C LENGTH, -
WRK C RSLNXT(R10)
DCLSGETDVAL
                                                             ADDL
                      30
                                                             BSBW
                                                                                                                    GET THE VALUE OF THE TOKEN DESCRIPTOR
                                                   TRANSLATE THE OVERALL STRING.
                                                                                                                   ;PUSH DESCRIPTOR INTO SCRATCH STACK
;ADDRESS OF STRING IN BUFFER
;MAXIMUM STRING TO RETURN
;GET ADDRESS OF OUTPUT DESCRIPTOR
;TRANSLATE THE NAME
;RESET THE RESULTANT STRING DESCRIPTOR
                      7D
DD
DD
DO
             51
52
3F
5E
                                                                          R1,-(R9)
                                                             MOVQ
                                                                          R2
#63
                                                             PUSHL
                                                             PUSHL
                                                            MOVL SP,RO
$TRNLOG_S (R9),(R0),(R0)
MOVQ (SP)+,R4
                                                             MOVL
     50
                      70
     54
             8E
                                                  SKIP PAST NODE AND DEVICE NAMES.
                                                                                                           FIND START OF DIRECTORY SPECIFICATION.
                     94
133
133
91
127
111
                                                                           (R5)[R4]
                                                                                                                   MARK THE END OF STRING LOOK FOR DEVICE NAME DELIMITER
                                               105:
                                                             LOCC
                                                                           #^A/:/,R4,(R5)
                                                             BEQL
SUBL3
                                                                           20$
                                                                                                                    BRANCH IF NO DEVICE HERE
    50
                                                                          #1,R0,R4
1(R1),R5
55
       01
                                                             MOVAB
                                                                          (R1)+,(R1)
20$
R4
R5
10$
    61
                                                                                                                   IS THIS A NODE NAME?
BR IF ONLY DEVICE
SKIP PAST SECOND COLON
                                                             CMPB
BNEQ
                                                             INCL
                                                                                                                    LOOK FOR MORE NODES OR DEVICE
                                         178
179
180
181
183
184
186
                                               : CONVERT THE DIRECTORY STRING TO A UIC.
                                                                          DCL$CVTUIC
RO,90$
R1,-(R9)
                      10
E9
D0
                                               20$:
                                                             BSBB
BLBC
MOVL
                                                                                                                    GET THE UIC
BRANCH IF ERROR
                                                                                                                    SAVE LONGWORD UIC
SET USER IDENTIFICATION CODE
RETURN WITH STATUS
                                                             SCHKRNL_S 6-SETUIC, (R9)
                      05
```

SET VO4-000

- SET PARAMETER DCLS COMMAND EXECUTION 16-SEP-1984 00:15:05 VAX/VMS Macro V04-00 Page 5
SET USER IDENTIFICATION CODE 4-SEP-1984 23:43:09 [DCL.SRC]SET.MAR:1 Page (3)

008f 188 SET USER IDENTIFICATION CODE
0000 008f 189 SETUIC: ...WORD 0
0000 008f 190 SETUIC: ...WORD 0
0000 008f 191 MOVL a//SCHSGL CURPCB,R0 (GET CURRENT PROCESS PCB ADDRESS MOVL (AP), PCBSL_UIC(R0) (SET USER IDENTIFICATION CODE (SET USER IDENTIFI

```
.SBTTL CONVERT STRING TO LONGWORD UIC
                                        DCLSCVTUIC - CONVERT STRING TO LONGWORD UIC.
                                         INPUTS:
                                                R4/R5 = DESCRIPTOR OF UIC STRING
                                        OUTPUTS:
                                                RO = STATUS
                                                R1 = LONGWORD UIC
                                                R2-R5 ARE TRASHED
                                      DCLSCVTUIC::
                        DECL
                 :SKIP LEADING BRACKET
                                                          R4,-(SP)
-(SP)
       7E
                                                MOVQ
                                                                                         SAVE DIRECTORY DESCRIPTOR
                                                                                         ALLOCATE LONGWORD FOR UIC
START WITH A BRACKET?
                                                CLRL
FF AS
                                                CMPB
                                                          #^A/[/,-1(R5)
                                                BEQL
                                                                                         IF EQL YES
START WITH A BRACKET?
   FF A5
                                                           #^A/</,-1(R5)
                                                          90$
SP,R3
CVTUIC
                                                BNEQ
                                                                                          IF NEQ NO
                                                                                         SAVE ADDRESS OF UIC LONGWORD CONVERT GROUP NUMBER END WITH A COMMA?
IF NEO NO SAVE GROUP NUMBER
       53
                                      105:
                                                MOVL
                                                BSBW
       85
                                                CMPB
                                                           #^A/,/,(R5)+
                                                BNEQ
   02 A3
                                                          RO,2(R3)
                                                MOVW
                                                          CVTUIC
                                                BSBW
                                                                                         CONVERT MEMBER NUMBER
                                                          #^A/3/,(R5)
         5D
                                                CMPB
                                                                                         END WITH A BRACKET?
                                                                                         IF EQL YES
END WITH A BRACKET?
                                                BEQL
       65
                                                CMPB
                                                           #^A/>/,(R5)
                                                          50$
                                                                                         IF NEQ NO
                                                BNEQ
       63
                                                MOVW
                                                          RO,(R3)
                                                                                         SAVE MEMBER NUMBER
                                                                                         GET UIC NUMBER
POP UIC DESCRIPTOR
                                                POPL
       5E
                                                ADDL
                                                STATUS
                                                          NORMAL
                                                                                        RETURN SUCCESS
                   05
                                        SIGNAL INVALID UIC SYNTAX
                                                STATUS
                                                          INVUIC
                                                                                        SET INVALID UIC SYNTAX
                                      95$:
             00
                                                          #12,SP
       5E
                                                ADDL
RSB
                                                                                        RESTORE THE STACK
                                        TAKE UIC APART AND TRY TO CONVERT IT USING SASCTOID.
                                      50$:
                                                          4(R3),R4
#^A/,/,R4,(R5)
                   70343
1327
070
70
                                                MOVQ
                                                                                        :GET UIC DESCRPITOR
                                                LOCC
                                                                                        LOOK FOR A COMMA
                                                BEQL
                                                          60$
                                                                                        BRANCH IF NONE
                                                          RO,4(R3)
RO
R1
RO,R4
                                                                                        GET LENGTH OF GROUP NAME
CREATE DESCRIPTOR OF REST OF UIC
                                                SUBL
                                                DECL
                                                INCL
       54
                                                MOVQ
                                                                                        SAVE DESCRIPTOR OF REST OF UIC
                                                SASCTOID_S NAME=4(R3),-
                                                                                        GET THE GROUP ID
```

ET 04-000					- SE	T PARA	METER RING	DCLS CO	MMAND EX	ECUTION	16-SEP-1984 4-SEP-1984	00:15:05 23:43:09	VAX/VMS Macro V04-00 CDCL.SRCJSET.MAR; 1	Page	(4)
		04	A3 ^{D6}	50	E9	0109 0117 011A	253 254 255		BLBC	ID=(R3) R0.95\$ R4,4(R3)		BRANC	H IF ERROR DESCRIPTOR OF REST OF UIC		
	65	54 65		-	3A 12 3A 13 C2	011E 0123 0125 0129 012B 012F	257 258 259 261 262	60\$:	LOCC BNEQ LOCC BEQL SUBL \$ASCTOI	#^A/]/,R4 65\$ #^A/>/,R4 90\$ R0,4(R3) D.S. NAME: ID=(R3) R0,95\$ 30\$	(P5)	: LOOK : BRANG : LOOK : BRANG : GET L : GET 1	FOR A CLOSING BRACKET THE FOUND FOR A CLOSING BRACKET THE IF NONE ENGTH OF MEMBER NAME THE UIC		
			BO	50 F98	E9 31	013D 0140 0143	263 264 265 266		BLBC BRW	ID=(R3) R0,95\$ 30\$			THE UIC		
		51	65 51 0 6	50 30 00 08 08 140 55 ED	7C 83 19 01 15 7E 06 11	0143 0143 0145 0149 0148 0154 0158 0159	255555566666667890123456789 255555566666667890123456789	CONVE		OCTAL UI(RO #^A/O/, (F 20\$ #8,R1 20\$ (R1)[R0], R5 10\$	COMPONENT R5),R1		R ACCUMULATION AND CHARACTER NEXT CHARACTER SS NOT DIGIT DIGIT? EQ NO MULATE RESULT I TO NEXT CHARACTER		

BA AA

0000011C 8F

79 10 00030004

#MAX_TRANS_LVLS,AP #S_XET_BUF,R9 R9,R8 ; set max translation counter
; allocate buffer
; save addr of buffer MOVL

Create item list for \$TRNLNM

CLRQ ; clear last longword and length addr LATTR(R8),-(R9) #ZLNMS_ATTRIBUTES@16>+4,-; MOVAL ; set up attributes item MOVL -(R9)

- SET PARAMETER DCLS COMMAND EXECUTION 16-SEP-	-1984 00:15:05 VAX/VMS Macro V04-00
SET DEFAULT DEVICE AND/OR DIRECTORY 4-SEP-	-1984 23:43:09 [DCL.SRC]SET.MAR;1

Page 9 (5)

	79 18 79 10 000200FF	A8 A8 8F 79	3E 9E 00	017A 330 017E 330 0182 340		MOVAB MOVL	W_STRING_LEN(R8),-(R9) T_STRING_BUF(R8),-(R9) #ZLNMS_STRING@16>+255,- -(R9)	string size goes here string buffer
	79 14 00070004	79 A8 8F	DE DO	0188 34 0189 34 018F 34 0195 34 0196 34		CLRL MOVAL MOVL	-(R9) L_MAX_INDEX(R8),-(R9) # <lnms_max_indexa16>+4,-</lnms_max_indexa16>	no output size max index here
00	08 A8 FE6A 68	OC CF 51	9A 9E 7D	0196 34 019A 34 01A0 34 01A3 34 01A3 35		MOVZBL MOVAB MOVQ \$TRNLNM	-(R9) #TABNAMSZ,Q_TABLE(R8) TABNAM,Q_TABLE+4(R8) R1,Q_LOGNAM(R8) S TABNAM=Q_TABLE(R8),-	create descriptor of logical name table to look in set up logical name translate the logical name
	0000°8F	50 08 50 18	B1 13 B1 13 05	017A 333 017E 333 0182 344 0188 344 0188 344 0188 344 0195 344 0196 344 0196 344 0196 344 0196 344 0196 355 0196 355 0187 355 0188 355 0181 355 0181 355 0182 355 0184 355 0184 355 0184 355 0185 0186 355 0186 355 0186 355 0186 355 0187 355 0187 355 0188 35		CMPW BEQL CMPW BEQL RSB	TABNAM=Q_TABLE(R8),- LOGNAM=Q_LOGNAM(R8),- ITMLST=(R9) RO,#SS\$_NORMAL 10\$ RO,#SS\$_NOLOGNAM 15\$	success? yes no translation? yes error
				0104 360	; Check	if there	e was a really a translati a concealed device.	ion, was it a search list
		A8 17 10 08	D5 14 19 E0	01C4 36 01C4 36 01C4 36 01C7 36 01C9 36 01CB 36 01CD 36 01DD 36 01DJ 37 01DJ 37 01DJ 37 01DJ 37	10\$:	TSTL BGTR BLSS BBS	L_MAX_INDEX(R8) 20\$ 15\$ #LNM\$V_CONCEALED,-	was there a real non-search list name branch if >0, search list branch if <0, null translation ignore if translation concealed
	10 10 18	AB AB	30	01CD 360 01D0 369		MOVZWL	L_ATTR(R8),20\$ W_STRING_LEN(R8),- Q_LOGNAM(R8)	set result string length
	18 10 04	A8 68 A8 A8 B8 68	28	01D3 370 01D4 371 01D7 377		MOVC3	Q_LOGNAM(R8) W_STRING_LEN(R8),- T_STRING_BUF(R8),- aq_Lognam+4(R8)	copy translation into the buffer where the original token use to be
	54	68	7D 11	01D9 373 01DB 374 01DE 375 01E0 376	15\$:	MOVQ BRB	Q COGNAM(R8),R4	setup string descriptor parse string
				01E0 370 01E0 370 01E0 370 01E0 380	We co	uld not u	use the translation becausiginal input string	se of concealed name or search list
	54	68	70	01E0 38	20\$:	MOVQ	Q_LOGNAM(R8),R4	get source descriptor
				01E3 38 01E3 38 01E3 38	Make	sure the	last character is a ":" s	so it acts like a device name
	3A FF A	544 06 3A 54	91 13 90 06	01E3 380 01E8 380 01EA 390 01EE 390		CMPB BEQL MOVB INCL	-1(R5)[R4],#^A':' 40\$ #^A':',(R5)[R4] R4	is last char a colon? continue if so append a colon if not count it as well
				01F0 39 01F0 39 01F0 39	Locat	e the de	vice portion of the string	, include any node names found as well

65 54 61 61 53 01 63 50 51 51 54	544 330 141 244 355 555 555 555 555 555	94 31 91 91 91 91 91 91 91 91 91 91 91 91 91	01F0 39 01F0 39 01F0 39 01F3 39 01F7 40 01FC 40 01FC 40 0205 40 0208 40 0208 40 0208 40 0215 40 0218 41	40\$:	CLRB LOCC BEQL CMPB BNEQ MOVAB SUBL LOCC BEQL MOVAB MOVL MOVL SUBL SUBL	(R5)[R4] #^A/:/,R4,(R5) 70\$ (R1)+,(R1) 60\$ 1(R1),R3 #2,R0 #^A/:/,R0,(R3) 50\$ 1(R1),R3 R3,R1 R5,R2 R1,R5 R2,R1 R1,R4		mark end of string look for device name delimiter branch if no device here is this a node name? branch if only device set address of end of node string and length of remainder see if device name is here branch if none, just use node set end of device name set end of equivalence name for disk save start of device string set start of directory string find length of device name adjust directory string length
			021E 41 021E 41 021E 41	At th	is point	: <r1,r2> = device (+noc <r4,r5> = rest of stri</r4,r5></r1,r2>	de)	
			021E 41	Check	if the	device portion = 'SYS\$D]	ISK	', if so ignore it
57 FDF2 56 50 51 67 62	CF 87 550 00 56 05 03	9E 9A C3 D7 12 BB 29 BA 12 31	021E 420 021E 420 0223 420 0226 420 022C 420 022C 420 0230 420		MOVAB MOVZBL SUBL3 DECL BNEQ PUSHR CMPC3 POPR	DCL\$T_DSKNAM,R7 (R7)+,R6 R6,R1,R0 R0 80\$ #^M <r1,r2> R6,(R2),(R7) #^M<r1,r2></r1,r2></r1,r2>		address of device name counted string get length and address of first byte find difference in name string sizes check if 1 byte difference(the colon!) br if no-can't be the special name save registers to be used check for reserved system name restore values
0	03 07E	12	0236 428 0238 429	70\$:	BNEQ BRW	80\$ 130\$		branch if no device name assignment needed
			023B 433 023B 433 023B 433 023B 433 023B 433	; direc	e device tory spe director 2 direct	portion has a translati cification, then repeat y was specified in addit ory specifications appea	ion usi ior	and it contains a ing the translation n, then report an error d in the same string
68	51 51	D7 7D	023B 436 023B 436 023B 436 023D 436 0240 446 0240 446	80\$:	DECL MOVQ STRNLNM	R1 R1,Q_LOGNAM(R8) S- TABNAM=Q_TABLE(R8),- LOGNAM=Q_LOGNAM(R8),- ITMLST=(R9) R0,#SS\$_NORMAL 90\$		do not send colon into trnlnm set up logical name translate the logical name
0000°8F	50 50 30	B1 13 B1 13 05	0252 446 0257 446 0259 446 025E 447 0260 446		CMPW BEQL CMPW BEQL RSB	RO #SS\$_NORMAL 90\$ RO #SS\$_NOLOGNAM 120\$		success? yes no translation? yes error
14	A8 36	D5 12	0261 450 0264 45	90\$:	TSTL	L MAX_INDEX(R8)	:	branch if no translation or search list

	- SET PARA SET DEFAUL	METER DCLS CO	OMMAND EX	C 9 ECUTION 16-SEP-1984 TORY 4-SEP-1984	0:15:05 V	AX/VMS Macro V04-00 CL.SRCJSET.MAR;1	Page	11 (5)
71 10 08	E0 0266	452	BBS	"LNMSV_CONCEALED	; or cor	ncealed		
18 A8 58 8F	3A 0268	454	LOCC	LATTRERS),120\$),-; is the	ere a directory in there	?	
1C A8	12 0272 3A 0274	456	BNEQ	T_STRING_BUF (R87		unless device/dir trans		
18 A8 3C	0278	457 458	PNEO	WAA/ , W_STRING_LEN(R<br T_STRING_BUF(R8)	1),-; is the	ere a directory in there	17	
20 54 11	13 027A 05 027C 12 027E	459 460 95\$: 461	BEQL TSTL BNEQ	T_STRING_BUF (R87 120\$ R4 100\$	ignore any dir if so,	unless device/dir trans rectory specified explica then error in specifica	lation itly? ition	
18 A8	3C 0280	463	MOVZWL	W_STRING_LEN(R8),-	; set res	sult string length		
18 A8 10 A8 04 B8 54 68 08 50	28 0284 0287 0289	465 466 467	MOVC3	Q_LOGNAM(R8) - W_STRING_LEN(R8) - T_STRING_BUF(R8) - Q_LOGNAM+4(R8)	copy to	ranslation into the buff the original token use	er to be	
54 68	7D 0288 F5 028E	468	MOVQ SOBGTR	Q_COGNAM(R8),R4 AP,110\$		tring descriptor		
00 %	0291	470 1008:	STATUS	DIRECT		ranslation levels in directory specificati	on	
FF54	05 0298 31 0299	472 1108:	RSB BRW	408	; continu	e translation device po	rtion	
51 68 51	7D 029C D6 029F 02A1	474 120\$: 475 476	MOVQ	Q_LOGNAM(R8),R1	; restore	device portion descripe colon to end of string	itor	
	02A1 02A1 02A1 02A1	477 : Creat 479 : defau 480 :	e/update ult disk	the logical name sys\$ device.	lisk which t	nolds the current		
00C6 8F	BB OZAT	482	PUSHR	#^M <r1,r2,r6,r7></r1,r2,r6,r7>	; descrip	tors for logical and eq	uivalence	na
04 AE 10 AE	BB 02A1 DD 02A5 7F 02A7 7F 02AA	485 484 485	PUSHAQ	#0 4(SP)	; access ; address	mode is defaulted of equivalence name de	sc	
02	7F O2A7 7F O2AA DD O2AD FR O2AF	485 486 487	PUSHAQ	16(SP)	; descrip	tor of name to relate w	ith	
00000000°9F 08	I W VEAL	707	BLBC	#LOGSC PROCESS #8,a#SYS\$CRELOG R0,150\$; clear d	escriptor on return if error creating name		
	E9 0286 0289 0289 0289	488 489 490 ; 491 ; Chang 492 ; 493 494 130\$:		fault directory specif				
	0289	493						
11	13 0289	494 1308:	BEQL	R4 140s	; branch	ectory field if no		
30 7E	D5 0289 13 0288 BB 0280 7C 028F 9F 02C1 FB 02C4 E9 02C8	496	BEQL PUSHR CLRQ PUSHAB	#^M <r4,r5> -(SP)</r4,r5>		tor for directory name is arguments 2 & 3		
00000000 GF 08 AE	9F 02C1	498	PUSHAB	-(SP) 8(SP) #5,G*SYS\$SETDDIR	; address	of directory string default directory		
07 50	E9 05CB	500	CALLS BLBC STATUS RSB	RO.150\$ NORMAL	; branch	if error from rms all is aok		
	05 0205	499 500 501 140\$: 502 150\$: 503	RSB	NOMINE	, essume	acc 13 dok		
	0200	303						

```
.SBTTL SET PROTECTION
  DCL$SETPROT - SET PROTECTION
  THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROTECTION DCLS COMMAND.
   INPUTS:
            R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
R9 = ADDRESS OF SCRATCH STACK.
R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
  OUTPUTS:
            THE CURRENT DEFAULT PROTECTION IS ESTABLISHED.
DCL$SETPROT::
                                                               SET PROTECTION
            CLRL
                                                               WHERE TO RETURN PROTECTION
                         -(SP)
                                                              NOTE WHERE PROTECTION IS TO BE PUT DON'T WANT TO SET PROTECTION GET DEFAULT PROTECTION COPY PROTECTION TO USEFUL REG
                         SP,-(SP)
-(SP)
            MOVL
            CLRL
             CALLS
            MOVL
                                                               SKIP PAST OPTION DESCRIPTOR
            ADDL
```

04 04 00 00 00 00 00 7E #2, a#SYS\$SETDFPROT (SP)+, R9 #2*PTR C LENGTH, -WRK L RSENXT(R10) DCL\$GETDVAL 00000000°9F AND /DEFAULT QUALIFIER GET NEXT DESCRIPTOR VALUES 3912A3775012300A37705511D4FB5 105: BSBW 55 "PTR_K_PARAMETR, R5 PARAMETER VALUE? : IF NEO NO :LOCATE PROTECTION CLASS :IF EQL INVALID CLASS :CALCULATE STARTING BIT NUMBER 40\$ (R2),#4,CLASS 60\$ R0 BNEQ FDOB CF 04 LOCC BEQL DECL MULL3 INSV #4,R0,R8 #^XF,R8,#4,R9 #PTR_K_COLON,R4 59 START WITH NO ACCESS PROTECTION VALUE SPECIFIED? CMPB DCLSGETDVAL R1,R7 (R2)+,#4,ACCESS 508 BNEQ BSBW IF NEQ NO GET PROTECTION VALUE DESCRIPTOR
SAVE LENGTH OF VALUE STRING
LOCATE PROTECTION CODE
IF EQL INVALID PROTECTION CODE
CALCULATE RELATIVE BIT NUMBER IN FIELD
CALCULATE ACTUAL BIT NUMBER
ALLOW SPECIFIED ACCESS
ANY MORE TO SCAN? MOVL FCE9 CF 20\$: BEQL RO R8.R0 R0.R9.30\$ R7.20\$ ADDL BBCC SOBGTR BRB 00 59 305: PUSHL SET NEW DEFAULT PROTECTION ARGUMENT ZERO ADDRESS OF RETURN DESCRIPTOR ADDRESS OF NEW PROTECTION 405: CLRL 00000000°9F CALLS #3, a#SYS\$SETDFPROT SET DEFAULT PROTECTION 50\$: STATUS IVPROT SET INVALID PROCTECTION CODE 05 STATUS SET INVALID KEYWORD

68 AB 0080 8F 06 56 01

587 588 589 590 591 592 593 594 20\$: 596 597 598 25\$: D00130131091312A89A1C89A11A89A1131 FCAA 04 34 OF BSBW DCLSGETDVAL 55 MPTR_K_ENDLINE,R5 40\$ #15,R6 #^A/P/,(R2) 25\$ #^A/P/,2(R2) BEQL 56 50 MOVL BEQL CMPB BNEQ 07 8F 08 02 53 00 04 01 03 53 F C78 50 56 56 56 56 30\$: #1,R6 R3,35\$ #1,R6 DCL\$GETDVAL #PTR_K_ENDLINE,R5 40\$ 20\$ 35\$:

GET OPTION DESCRIPTOR

IF LBC VERIFICATION SPECIFIED

DISABLE ALL VERIFICATION

IGNORE ANY KEYWORDS

ASSUME ALL VERIFICATION IS SPECIFIE

GET KEYWORD DESCRIPTOR

EOL?

YES, THEN SET SPECIFIED MODES

ASSUME NO KEYWORDS ARE SPECIFIED

IS FIRST CHAR 'P'?

YES, THEN PROCESS 'PROCEDURE'

IS THIRD CHAR 'P'?

NO, THEN PROCESS 'IMAGE'

INDICATE 'PROCEDURE VERIFICATION

IF LBC PROCEDURE VERIFICATION

GET NEXT

INDICATE 'IMAGE' SEEN

ENABLE PROCEDURE VERIFICATION

GET NEXT

INDICATE 'IMAGE' SEEN

ENABLE IMAGE VERIFICATION

GET KEYWORD DESCRIPTOR

GET KEYWORD DESCRIPTOR

EOL? :EOL? :YES, THEN SET SPECIFIED MODES :GET NEXT

: UPDATE PROCEDURE VERIFICATION STATE.

BBS BISW BBS

#3,R6,50\$;BRANCH IF "PROC" NOT SPECIFIED ASSUME VERIFICATION IS SPECIFIED BRANCH IF SO

SET V04-000

- SET PARAMETER DCLS COMMAND EXECUTION 16-SEP-1984 00:15:05 SET VERIFY MODE 4-SEP-1984 23:43:09

VAX/VMS Macro V04-00 [DCL.SRC]SET.MAR;1

Page 14 (7)

68 AB 0080 8F 02

AA E1

618 619 50\$: 620 621

BICW #PRC_M_VERIFY,PRC_W_FLAGS(R11)
BBC #2,R5,50\$
STATUS NORMAL
RSB

:DISABLE VERIFICATION :BRANCH IF "IMAGE" SPECIFIED :SET STATUS :RETURN

```
.SBTTL SET IMAGE VERIFY MODE
                                          DCL$SETVERIFY_IMAGE - SET IMAGE VERIFY MODE
                                          THIS ROUTINE IS CALLED TO SET IMAGE VERIFY MODE.
                                          INPUTS:
                                                  R6 = IMAGE VERIFY FLAGS, LBC MEANS CLEAR, LBS MEANS SET R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                          OUTPUTS:
                                                   THE IMAGE VERIFY MODE IS ESTABLISHED.
                                       DCL$SETVERIFY_IMAGE::
                                                                                                           :SET IMAGE VERIFY MODE
                                          GET INPUT STREAM INFORMATION.
                                                             PRC_L_INDFAB(R11),R1
PRC_L_IDFLNK(R11),R2
IDF_W_INPIFI(R2),FABSW_IFI(R1)
                  D0
D0
B0
                                                   MOVL
                                                                                                           GET ADDRESS OF GENERIC FAB
                                                   MOVL
                                                                                                          GET INPUT IFI
                                                   MOVW
                                         UPDATE IMAGE VERIFICATION STATE BOTH IN PRC AND FOR CURRENT INPUT STREAM.
                                                             R6,70$

#PRC_V_VERIMAGE,-

PRC_B_FLAGS2(R11),90$

#PRC_M_VERIMAGE,PRC_B_FLAGS2(R11); ENABLE IMAGE VERIFICATION
80$

#PRC_M_VERIMAGE,PRC_B_FLAGS2(R11); ENABLE IMAGE VERIFICATION
80$
                  E9
E0
                                                  BLBC
                                                                                                           BRANCH IF /NOIMAGE
: IF IMAGE VERIFY ALREADY SET,
    00AF
0080
                  A8
11
                                                   BISW
                                                   BRB
                                                             #PRC_V_VERIMAGE,-
PRC_B_FLAGS2(R11),90$
#PRC_M_VERIMAGE,PRC_B_FLAGS2(R11);DISABLE IMAGE VERIFICATION
                                       70$:
                  E1
                                                   BBC
                                                                                                           : IF IMAGE VERIFY ALREADY CLEAR,
OC 00AF
                                                   BICW
                                                             DCL$VERIFY_IMAGE
RO,95$
                                       805:
      07 50
                                                                                                           :ENABLE OR DISABLE VERIFICATION :RETURN ERROR STATUS
                                                  BLBC
                                                  STATUS
                                                             NORMAL
                                                                                                           RETURN SUCCESS
                  05
```

```
.SBTTL MODIFY INPUT STREAM CHARACTERISTICS
                                                              DCLSVERIFY_IMAGE - MODIFY THE INPUT STREAM CHARACTERISTICS.
                                                                 INPUTS:
                                                                            R1 = INPUT FAB
                                                                           R11 = ADDRESS OF PRC DATA STRUCTURE
                                                        OUTPUTS:
                                                                           RO = STATUS
                                                              DCLSVERIFY IMAGE::
                     012D CB
                                      95
12
                                                                                        PRC_B_EXONLYL(R11)
                                                                                                                                           :ARE WE IN EXE-ONLY MODE? :YES, DON'T DO ANYTHING.
                                                                           BNEQ
                                                                           BBS
MOVL
TSTL
BEQL
            08 68
                                      E0
05
13
80
84
E1
                                                                                        #PRC_V_MODE,PRC_W_FLAGS(R11),10$;BRANCH IF NOT INTERACTIVE #1,R0 :ASSUME SUCCESS
                                                                                                                                           ; ASSUME SUCCESS
; BRANCH IF LEVEL O
              5C AB
0000'C1 02
0002'C1
                                                                                        PRC_L_INDEPTH(R11)
                                                                                       #RMESC_PPFECHO, FABSL_CTX(R1)
FABSL_CTX+2(R1)
#PRC_V VERIMAGE, -
PRC_B_FLAGS2(R11), 20s
PRC_L_INDOUTRAB(R11), R0
RABSW_ISI(R0), -
FABSL_CTX+2(R1)
P1
                                                                                                                                           SET TYPE CODE
ZERO ISI VALUE
IF IMAGE VERIFY SET,
THEN SET THE ISI
GET ADDR OF OUTPUT RAB
SET OUTPUT ISI
                                                              105:
                                                                            MOVW
                                                                            CLRW
                                                                            BBC
                      OOAF
                                      DO
BO
                         18
                                                                            MOVL
                                                                           MOVW
                      0002'61
                                      DD
C8
                                                                                                                                           SAVE R1
SET ESC BIT IN FOP
MODIFY THE INPUT STREAM
RESTORE R1
                                                              20$:
                                                                           PUSHL
                                                                                       #FABSM_ESC,FAB$L_FOP(R1)
FAB=(RT)
                                                                           BISL
$MODIFY
POPL
BICL
0000°C1
                00000000°8F
0000°C1
                00000000°8F
                                                                                        #FABSM_ESC,FABSL_FOP(R1)
FABSL_CTX(R1)
                                                                                                                                            CLEAR ESC BIT IN FOP
                      0000'01
                                                                           CLRL
                                                                           RSB
                                                              905:
                                                                                                                                            RETURN STATUS
```

BR IF 'ON' ALREADY AT RESEVED LEVEL SAVE PREVIOUS 'ON' LEVEL SET TO RESERVED LEVEL END OF NOON HANDLING

```
VAX/VMS Macro V04-00 [DCL.SRC]SET.MAR;1
                                                          .SBTTL SET ON MODE
                                              DCL$SETON - SET ON MODE
                                             THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET ON MODE DCLS COMMAND.
                                              INPUTS:
                                                          R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
R9 = ADDRESS OF SCRATCH STACK.
                                                          R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                              OUTPUTS:
                                   718
719
720
7723
7723
7726
7728
7733
7733
7733
7735
                                                          THE ON MODE IS ESTABLISHED.
                                                                                                                       SET ON MODE
GET THE DESCRIPTOR FOR "ON"
SET NORMAL COMPLETION STATUS
GET ADDRESS OF ON LEVEL CODE
CHECK "ON" LEVEL FOR RESERVED LEVEL
BR IF OPTION WAS NEGATED (NOON)
BR IF "ON" ALREADY ACTIVE
RESET TO SAVED VALUE
                                          DCL$SETON::
                                                                          DCLSGETDVAL
FBC1'
             30
                                                          BSBW
                                                          STATUS
                                                                          NORMAL
                                                                         PRC W ONLEVEL (R11),R1 #8, (R1)
R3,20$
             9E 1490513995
                                                          MOVAB
                                                          CMPB
                                                          BLBS
                                                          BGTR
```

1(R1),(R1)

30\$ (R1),1(R1) #8,(R1)

MOVB

RSB

BEQL MOVB MOVB

RSB

10\$:

30\$:

.SBTTL SET CONTROL ENABLE/DISABLE

```
DCLSSETCTLY - SET CONTROL MODE
                                                                              THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET CONTROL=KEY MODE DCLS COMMAND.
                                                                              INPUTS:
                                                                                         R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
R9 = ADDRESS OF SCRATCH STACK.
R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                                                  OUTPUTS:
                                                                                         CONTROL Y AND OUT-OF-BAND AST'S ARE ENABLED OR DISABLED FOR THIS PROCESS.
                                                                          DCLSSETCTLY::
                                                                                                                                                       SET CONTROL MODE :ALLOCATE CHAR MASK ON STACK
                                FB9A
                                                                                         CLRL
                                             30
                                                                                                         DCLSGETDVAL
                                                                                                                                                       GET OPTION DESCRIPTOR
                                                                                                         PTR V NEGATE EQ 20
                                                                                          ASSUME
                                             DO
                                   53
                                                                                          MOVL
                                                                                                                                                       :SAVE [NO] STATUS FOR FUTURE USE
                                             30
91
12
10
11
                                                                                         BSBW
CMPB
BNEQ
                                                                                                                                                       GET FIRST LETTER
END OF LINE?
IF YES, THEN ASSUME Y
OTHERWISE, SET CONTROL Y BY DEFAULT
                                                                                                         DCLSGETDVAL
                                    55
04
30
20
                                                                                                         R5.#PTR_K_ENDLINE
                                                                                                         CTRLY
80$
                                                                                          BSBB
                                                                                          BRB
                                                                                                                                                       ; ALL DONE
                              62
50
FB7E*
                                                                                         LOCC
BBSS
BSBW
CMPB
                                             3A
E2
30
91
12
                                                                                                        (R2),#26,CONTROL_CHARS
R0,(SP),40$
DCL$GETDVAL
                                                                                                                                                       GET INDEX OF LETTER SET CHAR BIT IN MASK GET NEXT PARAMETER
       FBA2 CF
                          1A
6E
                                                                          305:
                    00
                                                                          405:
                                                                                                         RS #PTR_K_ENDLINE
                                                                                                                                                       END OF LINE?
                                                                                          BNEQ
                                                                                         BISL3
BLBC
BBC
BSBB
BICL3
JSB
                                                                                                        (SP) PRC_L_OUTOFBAND(R11) R1 ; GET CHARACTER MASK R6,70$ ; IF LBC, THEN ENABLE SPECIFIED #PRC_V_CTRLY, (SP),60$ ; IF NOT CTRL/Y, THEN SKIP ; DO SPECIAL CTRL/Y PROCESSING (SP),PRC_L_OUTOFBAND(R11),R1 ; SET MASK FOR DISABLE DCL$RESETOOB ; ENABLE/DISABLE APPROPRIATE AST ROUTINES
                                   6E
56
19
                                             C9
E9
E1
10
CB
16
                 00B4 CB
                                                                          50$:
                              00
                    02 6E
                00000000 EF
                                                                          60$:
70$:
       51
                                    8E
                                             DO
                                                                          805:
                                                                                         MOVL
                                                                                                        (SP)+,RO
                                                                                                                                                      RESTORE STACK SET NORMAL COMPLETION STATUS
                          50
                                             05
                                                                                          RSB
                 02000000 8F
02000000 8F
                                                                                                        #PRC_M_CTRLY,PRC_L_OUTOFBAND(R11) ;ASSUME ENABLE SPECIFIED R6,10$ :IF LBC, THEN ENABLE SPECIFED #PRC_M_CTRLY,PRC_L_OUTOFBAND(R11) ;CLEAR CTRL/Y BIT IN MASK W^DCCSONCTLYRST ;RESET CONTROL Y COMMAND TEXT
                                             C8
E9
CA
05
                                                                                         BISL
BLBC
BICL
BSBW
                                                                         CTRLY:
00B4 CB
00B4 CB
                                                                                          RSB
                                                                         10$:
```

```
.SBTTL SET PROMPT
                                                                  DCLSSETPROMPT - SET PROMPT
                                                                  THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROMPT DCLS COMMAND.
                                                                  INPUTS:
                                                                           R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
R9 = ADDRESS OF SCRATCH STACK.
R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                                        805
806
807
808
809
                                                                  OUTPUTS:
                                                                           THE DCL PROMPT STRING IS CHANGED.
                                                                                       CL$CRLF,PRC_W_PMPTCTRL(R11);ASSUME /CONTROL
PRC_V_CARRCNTL,PRC_W_FLAGS(R11);SET CR/LF FLAG
DCL$GETDVAL :GET FIRST TOKEN
R5,#PTR_K_COMDQUAL :/[NO]CONTROL QUALIFIER?
                                                               DCL$SETPROMPT::
                                             04CF3
04CF3
04CF3
04CF3
04CF3
04CF3
04CF1
04FA
04FA
04FA
04FA
04FA
                00000000'EF
OOF1 CB
                                      B0
                                                                            MOVW
                                                                            SETBIT
                                      30
91
12
                                                                            BSBW
                                                                            CMPB
                                                                                                                               ; NO, THEN BRANCH
                                                                            BNEQ
                                                                                        PTR_V_NEGATE EQ 20
R3.TOS
PRC_W_PMPTCTRL(R11)
PRC_V_CARRENTL,PRC_W_F
DCLSGETDVAL
                                                                            ASSUME
                                                                           BLBC
                                                                                                                               BRANCH IF NOT NEGATED
                                                                                                                            SET NOCONTROL
LAGS(R11) ; INDICATE NO CR/LF
; GET 'PROMPT' TOKEN
                                                                            CLRBIT
                           FB17
                                                              10$:
                                      30
91
12
00
                                                                            BSBW
                          FB14'
                                                                            BSBW
                                                                                        DCLSGETDVAL
                                                                                                                               GET PROMPT STRING
                                                                                         R5, #PTR_K_ENDLINE
                                                                                                                               IF PRESENT
                                                                            CMPB
                                                                            BNEQ
                                                                                                                                THEN RESET THE PROMPT
               00000000 EF
                                                                                        DCLST_PROMPT. -
PRC_B_CONTINUE(R11)
#DCCSC_PROMPTLEN, -
                                                                            MOVL
                                                                                                                               ELSE RESTORE THE DEFAULT
                         00'8F
                                      90
                                                                           MOVB
                      00F0
                                                                                        PRC_B_PROMPTLEN(A11)
                                      11
                                                                           BRB
                                                                                                                                DONE
               000388FA
                                      DO
D1
                                                              30$:
                                                                                                                               ASSUME STRING IS TOO LONG
                                                                                        #CLIS_STRTOOLNG,RO
                                                                            MOVL
                                                                                        R1, #ERT_K_MAX_PROMPT
                                                                            CMPL
                                       14
                               13
                                                                            BGTRU
                                                                                                                               YES, THEN ERROR
                                                                                        ENT K_MAX_PROMPT LT 256
#3.R1.-
PRC_B_PROMPTLEN(R11)
R1.(R2),PRC_G_PROMPT(R11)
                                                                           ASSUME
                                      81
      OOFO CB
                      51
                              03
                                                                            ADDB3
                                                                                                                                SAVE LENGTH OF PROMPT
      OOF4 CB
                      62
                              51
                                       28
                                                                            MOVC3
                                                                                                                                 SAVE PROMPT STRING
                                                              80$:
90$:
                                                                           STATUS
                                                                                        NORMAL
                                                                                                                               : RETURN NORMAL STATUS
                                      05
                                                                            RSB
```

.END

SET Symbol table	- SET PARAMETER DCLS COMMAND EXECUTION 16-SEP-1984 00:15:05 VAX/VMS Macro V04-00 4-SEP-1984 23:43:09 [DCL.SRC]SET.MAR;1	Page 20 (12)
\$\$.TMP1 \$\$.TMP2 ACCESS CLASS CLASS CLIS_DIRECT CLIS_INVUIC CLIS_IVKEYW CLIS_IVPROT CLIS_IVPROT CLIS_NORMAL CLIS_STRTOOLNG CONTROL_CHARS CTRLY CVTUIC DCL\$CRLF DCL\$CVTUIC DCL\$CPROMPTLEN DCL\$GETDVAL DCL\$GETDVAL DCL\$GETDVAL DCL\$SETOR DCL\$SETVERIFY DCL\$SETOR DCL\$T PROMPT FABSH_CTX FABSH_CTX FABSH_FOP FABSM_ESC FABSW_IFI IDF_B_OUTFLAGS IDF_C_LENGTH IDF_L_INPRABCTX IDF_L_ONCTLY IDF_L_ONCTLY IDF_L_ONCTLY IDF_L_ONCTLY IDF_L_ONCTLY IDF_L_ONCTLY IDF_L_ONCTLY IDF_UTABCTX IDF_	00000001	

SET Symbol table	- SET PARAMETER DCLS	COMMAND EXECUTION	16-SEP-1984 00:15:05 VAX/VMS Macro V04-00 4-SEP-1984 23:43:09 [DCL.SRC]SET.MAR;1	Page 21 (12)
PRC L TMBX PRC L TRMLIST PRC M CTRLY PRC M VERIFY PRC M VERIFY PRC M VERIMAGE PRC Q ALLOCREG PRC Q FLUSHTIME PRC Q GLOBAL PRC Q IMAGENAME PRC Q LOCAL PRC Q LOCAL PRC V CARRCNTL PRC V CARRCNTL PRC V CARRCNTL PRC V CARRCNTL PRC V WASTIOSB PRC W ASTIOSB PRC W ASTIOSB PRC W ASTRETN PRC W ASTSTATUS PRC W ASTRETN PRC W OUTIFI PRC W OUTIBX PRC W OU	00000074 00000000 = 02000000 = 000000080 000000028 000000088 000000088 000000088 000000088 000000	SYS\$MODIFY SYS\$SETDDIR SYS\$SETDFPROT SYS\$TRNLNM STRINLLEN S\$	******** ******* ******* GX 02 ******* 0000011 00000008 00000000 = 0000001 FFFFFFC3 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFC4 FFFFFFAA FFFFFFAA FFFFFFAA FFFFFFAA FFFFFF	

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes				
SABSS DCLSZCODE	00000000 (0.) FFFFFFFC (0.) 00000522 (1314.)	00 (0.) 01 (1.) 02 (2.)	NOPIC USR NOPIC USR NOPIC USR	CON ABS CON ABS CON REL	LCL NOSHR NOE	E NORD	NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.05	00:00:01.73
Command processing Pass 1 Symbol table sort Pass 2	308	00:00:12.24	00:00:38.76
Pass 2	146	00:00:01:49	00:00:02.52
Symbol table output Psect synopsis output	2	00:00:00.21	00:00:00.80
Cross-reference output Assembler run totals	571	00:00:00.00	00:00:00.00

The working set limit was 1500 pages.
63039 bytes (124 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 944 non-local and 65 local symbols.
839 source lines were read in Pass 1, producing 18 object records in Pass 2.
50 pages of virtual memory were used to define 33 macros.

! Macro library statistics !

Macro library name	Macros define
_\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1 _\$255\$DUA28:[DCL.OBJ]DCL.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	10 2 14 26

1173 GETS were required to define 26 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SET/OBJ=OBJ\$:SET MSRC\$:SET/UPDATE=(ENH\$:SET)+EXECML\$/LIB+LIB\$:DCL/LIB+SYS\$LIBRARY:SYSBLDMLB/LIB

0073 AH-BT13A-SE

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